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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-03-21-01** **Date: 29-03-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain with Covering Slab at 1st Main of Anjaneyaswamy Layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri. Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/233/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-03-2017
Sample ID No	:	2017-03-21-01/01
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	22/03/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	100.01	250.48	3.116	7854	140.9	17.9	17.9	22.4
2	Cover Slab-2	100.04	250.52	3.122	7859	142.3	18.1	18.1	22.6
3	Cover Slab-3	100.02	250.51	3.118	7856	151.5	19.3	19.3	24.1

Note:
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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harshitha

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-02-20-05** **Date: 22/03/2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain with Covering Slab at 1st Main of Anjaneyaswamy Layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency		Sri. Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/233/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-02-17
Sample ID No	:	2017-02-20-05/01
Sample Type	:	Ultratech 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	21-02-2017 to 21-03-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.76	–
2	Finess by Air permeablity method (m2/kg, Min)	278.8	225m^2/kg, Min
3	Density (gm/cc)	3.25	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	235 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-02-20-05** **Date: 22/03/2017**

Sample ID No : **2017-02-20-05/01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	340 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2.0mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
	28 Days	55.0N/mm^2	Not less than 53 N/mm^2

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Prepared by
Harshitha

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Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-18-02** **Date: 25-03-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain with Covering Slab at 1st Main of Anjaneyaswamy Layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri. Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/233/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-03-17
Sample ID No	:	2017-03-18-02/03
Sample Type	:	Kamadhenu Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	23-03-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Kamadhenu	Fe500	8mm	0.393	508	611	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Kamadhenu	Fe500	8mm	Satisfactory	Satisfactory

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

Prepared By:
Harshitha

Jodha AE

End of Report

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-18-02** **Date: 25-03-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain with Covering Slab at 1st Main of Anjaneyaswamy Layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri. Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/233/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-03-17
Sample ID No	:	2017-03-18-02/04
Sample Type	:	Kamadhenu Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	23-03-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Kamadhenu	Fe500	10mm	0.615	532	641	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Kamadhenu	Fe500	10mm	Satisfactory	Satisfactory

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Harshitha

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End of Report

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-18-02** **Date: 25-03-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain with Covering Slab at 1st Main of Anjaneyaswamy Layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri. Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/233/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-03-17
Sample ID No	:	2017-03-18-02/05
Sample Type	:	Kamadhenu Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	23-03-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Kamadhenu	Fe500	12mm	0.885	553	672	21.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Kamadhenu	Fe500	12mm	Satisfactory	Satisfactory

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-18-02** **Date: 28-03-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain with Covering Slab at 1st Main of Anjaneyaswamy Layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri. Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.
Customer Reference	:	BBMP/EE/BTP/WO/233/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-03-17
Sample ID No	:	2017-03-18-02/01(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	20-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	98	98	1.96	98.0	95-100
3	10 mm	2262	2360	47.2	52.8	25-55
4	4.75 mm	2577	4937	98.74	1.3	0-5
5	Pan	63	5000	100	0	

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-18-02** **Date: 28-03-2017**

Sample ID No : 2017-03-18-02/01(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	**13.8**	_
2	Elongation Index(%)	**10.2**	_
3	Specific Gravity	**2.62**	_
4	Bulk Density(Loose) (Kg/l)	**1.52**	_
5	Bulk Density(Compacted) (Kg/l)	**1.59**	_
6	Water Absorption(%)	**0.31**	_
7	Ten percent fine value(KN)	**155.9**	_
8	Aggregate crushing Value(%)	**22.8**	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements
9	Aggregate Impact Value(%)	**24.1**	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements

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Harshitha

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

Zadha AE

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-18-02** **Date: 28-03-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain with Covering Slab at 1st Main of Anjaneyaswamy Layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri. Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/233/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	18-03-17
Sample ID No	:	2017-03-18-02/01(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorvation
Date of test	:	20-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	80 mm	0	0	0	100	100
2	40 mm	155	155	3.1	96.9	95-100
3	20 mm	1865	2020	40.4	59.6	30-70
4	10 mm	1541	3561	71.22	28.8	10-35
5	4.75 mm	1276	4837	96.74	3.3	0-5
6	Pan	163	5000	100	0.0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-18-02** **Date: 28-03-2017**

Sample ID No : 2017-03-18-02/01(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	11.5	_
2	Elongation Index(%)	8.6	_
3	Specific Gravity	2.61	_
4	Bulk Density(Loose) (Kg/l)	1.48	_
5	Bulk Density(Compacted) (Kg/l)	1.54	_
6	Water Absorption(%)	0.22	_

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Prepared by
Harshitha

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Quality Manager

****End of Report****

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-03-18-02** **Date: 26-03-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain with Covering Slab at 1st Main of Anjaneyaswamy Layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri. Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/233/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-03-17
Sample ID No	:	2017-03-18-02/02
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	18-03-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	49	49	4.9	95.1	90-100	90-100	90-100	95-100
3	2.36 mm	88	137	13.7	86.3	60-95	75-100	85-100	95-100
4	1.18 mm	94	231	23.1	76.9	30-70	55-90	75-100	90-100
5	600 micron	313	544	54.4	45.6	15-34	35-59	60-79	80-100
6	300 micron	195	739	73.9	26.1	5-20	8-30	12-40	15-50
7	150 micron	205	944	94.4	5.6	0-10	0-10	0-10	0-15
8	Pan	56	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-03-18-02** **Date: 26-03-17**

Sample ID No : 2017-03-18-02/02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970 (RA2016)
1	Water Absorption(%)	2.15	_
2	Specific Gravity	2.52	_
3	Material finer than 75 micron(%)	6.1	Not more than 15 percent

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Prepared by
Harshitha

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-03-03-01** **Date: 04-03-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drain with Covering Slab at 1st Main of Anjaneyaswamy Layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri. Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/233/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-03-17
Sample ID No	:	2017-03-03-01/01
Customer ID	:	PCC (1:2:4)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC (1:2:4)	M15	28/03/2017	04/04/2017	148.64 X 151.81 X 150.33	22565	8.159	288.8	12.8	12.9
2	PCC (1:2:4)	M15	28/03/2017	04/04/2017	150.37 X 150.66 X 150.73	22655	8.183	301.3	13.3	
3	PCC (1:2:4)	M15	28/03/2017	04/04/2017	150.37 X 149.23 X 150.78	22440	8.148	280.5	12.5	

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-10-03** **Date: 14-04-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC drain with Covering Slab at 1st Main of Anjaneyaswamy Layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri. Gopi reddy, No:03, first cross, first main, Ramachandrappa layout, Arebic college post, erannapalya, Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/233/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-17

Sample ID No : 2017-04-10-03/01

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M20	06/04/2017	13/04/2017	151.04 X 151.22 X 149.72	22840	8.108	386.0	16.9	17.3
2	Footing Concrete	M20	06/04/2017	13/04/2017	151.55 X 150.62 X 150.86	22826	8.176	397.2	17.4	
3	Footing Concrete	M20	06/04/2017	13/04/2017	150.67 X 150.52 X 150.87	22679	8.116	399.1	17.6	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
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CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Jadha AE

****End of Report****

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